

NEBRASKA

Good Life. Great Resources.

DEPT. OF ENVIRONMENT AND ENERGY

April 1, 2021

Tanner Shaw, President of AltEn, LLC
Capital Corporate Services, Inc.
Suite 800
1125 South 103rd Street
Omaha, NE 68124



Pete Ricketts, Governor

Dear Mr. Shaw:

The Department has received the Title 123 Construction Permit Application submitted on March 26, 2021, for a water filtration system at AltEn, LLC. As stated in a previous letter dated April 1, 2021, this submission is incomplete.

However, AltEn, LLC, may use the wastewater treatment facility on-site (referred to by AltEn as the carbon or water filtration system) for pilot testing to treat **existing** lagoon wastewater and then **store** it on-site. Portable treatment units (PTUs) such as the PTU that Clean Harbors brought on-site to treat water from the spill that occurred on February 12, 2021, may also be used to treat **existing** lagoon wastewater on-site. However, the Department must be notified if any additional treatment is brought on-site for pilot testing. No additional wastewater should be produced, and treatment may only be used to treat existing wastewater on-site. Moreover, treated water from pilot testing may **not** be discharged without Department approval and must be stored on-site. The following are the available options for your facility if you choose to engage in wastewater treatment pilot testing:

- 1) Draw wastewater from one of the lagoons and discharge it back into the three-celled lagoon system following treatment, preferably into a different lagoon than the one drawn from. For example, wastewater could be drawn from the Southeast Lagoon, treated via pilot testing, and then discharged into the Northwest Lagoon.
- 2) Draw wastewater from one of the lagoons, treat it, and then store it in available storage on-site. Storage on-site must be identified to the Department prior to use.

For either of these options, the facility should also complete the following:

- 1) Sample the raw influent wastewater and the treated effluent at least once per week. A list of required analytes is attached to this letter. Please include the amount of wastewater treated between the collected samples. Please notify the Department prior to sampling so the Department can observe the sampling.
- 2) Provide the Department with the sludge disposal method for any sludge produced from the treatment system.
- 3) Log all chemical changes and any optimization that may occur as part of the pilot testing.
- 4) Log the frequency of filter backwash and the parameters that are used to dictate backwash frequency.

Department of Environment and Energy
P.O. Box 98922
Lincoln, Nebraska 68509-8922

Jim Macy, Director
office 402-471-2158 fax 402-471-2908
nmee.moreinfo@nebraska.gov



As stated previously, the wastewater treatment facility on-site as well as any PTUs that may be brought on-site may only be used for pilot testing with existing wastewater on-site. No wastewater may be discharged without Department approval. All effluent from the pilot testing must be stored on-site.

If you have any questions, please contact me at 402-471-4252 or Hillary.Stoll@nebraska.gov.

Sincerely,



Hillary Stoll
Environmental Engineer II
Permitting & Engineering Division

Enclosures

1. Attachment 1: List of Analytes for Influent and Effluent Sampling

Attachment 1) List of Analytes for Influent and Effluent Sampling

<u>Traditional Parameters</u>
Ammonia
Biological Oxygen Demand (BOD)
Nitrate/Nitrite Nitrogen
Phosphorus
Selenium
Total Kjeldahl Nitrogen (TKN)
Total Organic Carbon (TOC)
Total Suspended Solids (TSS)
pH
<u>Pesticides</u>
Abamectin
Acetamiprid
Azoxystrobin
Brassinazole
Clothianidin
Cyproconazole
Difenoconazole
Dimoxystrobin
Dinotefuran
Epoxiconazole
Fluconazole
Fluoxastrobin
Glufosinate
Glyphosate
Imidacloprid
Ipconazole
Isavuconazole
Itraconazole
Metconazole
Nitenpyram
Orysastrobin
Picoxystrobin
Posaconazole
Propiconazole
Prothioconazole
Pyraclostrobin
Ravuconazole
Tebuconazole
Tetraconazole
Thiabendazole
Thiacloprid
Thiamethoxam
Trifloxystrobin
Uniconazole
Voriconazole